

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/25332

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C08G 75/00; C12Q 1/00; C23F 1/00; G01N 23/00; G01R 31/26; G21K 7/00; H01B 1/02, 1/08; H01L 21/66

US CL : 216/2; 250/307; 252/518.1; 435/4; 438/14; 528/380

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 216/2; 250/307; 252/518.1; 435/4; 438/14; 528/380

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 2001/0044156 A1 (Kelly et al) 22 November 2001 (22.11.2001), page 2, paragraphs [0011], [0012]; page 3, paragraph [0014]; page 4, paragraph [0030]; page 7, paragraph [0050].	1, 13-15, 17, 18, 20-23, 25-28 ----- 2-7
Y --- A	BAN, L.L. et al. Determining the Polymer Domain Structure of TPE Blends by Microscopy Techniques. Rubber World. January 1993, Vol 207. No. 4, pages 20-22.	2-7 ----- 29
Y	VAN DER LINDEN, H. et al. Development of Stimulus-sensitive Hydrogels Suitable for Actuators and Sensors in Microanalytical Devices. Sensors and Materials. 2002, Vol 14. No. 3, pages 129-139, especially page 135.	8
A	KELLY, T.F. et al. Local Electrode Atom Probes. Materials Characterization. 2000, Vol 44. No. 1/2, pages 59-85, especially page 67.	9-12, 19, 24
A	MARUYAMA, T. et al. FIM and Atom-probe Study of Polymers. Journal de Physique. November 1987, C6, pages C6-269/C6-274, especially page C6-270.	12, 16, 19



Further documents are listed in the continuation of Box C.



See patent family annex.

<p>* Special categories of cited documents:</p>		
"A" document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

13 June 2005 (13.06.2005)

Date of mailing of the international search report

22 JUL 2005

Name and mailing address of the ISA/US

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Continuation of B. FIELDS SEARCHED Item 3:

EAST: US-PGPUB, USPAT, EPO, JPO, DERWENT; STN: REGISTRY, CAPLUS, BIOSIS;

Search terms: osmium tetroxide, ruthenium tetroxide, focused ion beam, atom probe, lithography, microanalysis, intrinsically conductive polymer, protein